

IN THE CLAIMS:

Please amend claim 35, cancel claims 31-34 and 40-44 without prejudice and add new claims 50-51 as follows:

1-24. (Cancelled)

25. (Original) An optical camera configured to be installed in a mobile device so that the optical camera faces outwardly from a lateral side of the device, the optical camera comprising:

a cylindrically shaped housing comprising:

an anterior opening having diameter less than the diameter of a lens;

a posterior opening having a diameter sufficient for receiving the lens, a lens cap, and a camera; and

an inner surface;

a cylindrically shaped camera having an anterior surface, on which a lens hole is formed, and a circular exterior surface;

a ring-shaped lens cap having an internal diameter sufficiently large so that a transmission of an image from the lens to the camera is not affected, the lens cap comprising a plurality of notches to operationally engage with the inner surface of the housing;

a zoom lens situated adjacent to the anterior opening of the housing; and

a means for optical zoom.

26. (Original) The camera of claim 25, wherein the means for optical zoom comprises:

a screw head formed on the circular exterior surface of the cylindrically shaped camera;

a screw thread formed on the inner surface of the housing to engage the screw thread formed on exterior surface of the camera, wherein rotation of the housing results in rotation of the camera, thereby moving the camera longitudinally within the housing; and

a rotation handle in operative relationship with the housing such that rotation of the rotation handle results in rotation of the housing.

27. (Original) The camera of claim 25, wherein the means for optical zoom comprises:

- a plurality of longitudinal grooves formed on the circular exterior surface of the cylindrically shaped camera;

- a plurality of longitudinal protrusions formed on the inner surface of the housing to engage with the plurality of grooves formed on exterior surface of the camera;

- a controlling unit manipulated by at least one of a plurality of terminal manipulation devices;

 - a motor operated by at least one signal transmitted from the controlling unit;

 - a drive shaft having an anterior and posterior ends, wherein the posterior end is operatively connected to the motor so that the motor rotates the drive shaft;

 - a pinion connected to the anterior end of the drive shaft; and

 - a rack affixed to the housing and in operational relationship with the pinion so that rotation of the pinion results in longitudinal movement of the housing.

28. (Previously presented) The camera of claim 25, wherein the means for optical zoom comprises:

- a plurality of longitudinal grooves formed on the circular exterior surface of the cylindrically shaped camera;

- a plurality of longitudinal protrusions formed on the inner surface of the housing to engage with the plurality of grooves formed on exterior surface of the camera;

- a sensor situated on the device and adjacent to the camera so that the sensor and the camera are congruent;

 - a controlling unit manipulated by at least one signal received from the sensor;

 - a motor operated by at least one signal transmitted from the controlling unit;

 - a drive shaft having an anterior and posterior ends, wherein the posterior end is operatively connected to the motor so that the motor rotates the drive shaft;

 - a pinion connected to the anterior end of the drive shaft; and

a rack affixed to the housing and in operational relationship with the pinion so that rotation of the pinion results in longitudinal movement of the housing.

29-34. (Cancelled)

35. (Currently amended) A folding-type mobile communication terminal comprising:

- an upper body comprising a display;

- a lower body comprising a front side and a rear side;

- at least one terminal manipulation device;

- a hinge configured to connect the lower body with the upper body at an upper end portion of the lower body and a lower end portion of the upper body, wherein the hinge is located at one lateral end portion of the upper end portion of the lower body; and

- a photographing apparatus coupled to a lateral side of the hinge, the photographing apparatus comprising:

 - ~~an image sensor;~~

 - a controlling unit;

 - a camera;

 - a zoom lens positionable relative to the ~~image-sensor camera~~; and

- a positioning mechanism providing optical zooming by causing relative motion between the zoom lens and the ~~image-sensor-responsive-to camera~~,

- wherein the positioning mechanism is operated by the controlling unit when the controlling unit receives a signal for the optical zooming through user manipulation of the at least one terminal manipulation device.

36. (Previously presented) The terminal of claim 35, wherein the photographing apparatus is positioned to face outward from the lateral side of the hinge.

37. (Previously presented) The terminal of claim 35, wherein the terminal manipulation device is located on the front side of the lower body.

38. (Previously presented) The terminal of claim 35, wherein the terminal manipulation device is positioned on the hinge.

39. (Previously presented) The terminal of claim 35, further comprising:
an input device located on the front side of the lower body.

40-44. (Cancelled)

45. (Previously presented) The terminal of claim 35, wherein the terminal manipulation device is located on at least one lateral surface of the upper body.

46. (Previously presented) The terminal of claim 35, wherein the terminal manipulation device is located on at least one lateral surface of the lower body.

47. (Previously presented) The terminal of claim 35, wherein the positioning mechanism of the photographing apparatus comprises a pinion and the optical zooming is performed by rotation of the pinion.

48. (Previously presented) The terminal of claim 47, wherein the positioning mechanism of the photographing apparatus further comprises a rack and the optical zooming is performed by a motion generated by the rack and pinion.

49. (Previously presented) The terminal of claim 35, wherein the photographing apparatus further comprises a motor and the positioning mechanism comprises a driving mechanism, the driving mechanism comprising:

a rack having grooves;

a pinion having teeth that meshes with the grooves; and

a drive shaft, which is operatively connected to the motor, for rotating the pinion.

50. (New) A folding-type mobile communication terminal comprising:
an upper body comprising a display;

a lower body comprising a front side and a rear side;

at least one terminal manipulation device;

a hinge configured to connect the lower body with the upper body at an upper end portion of the lower body and a lower end portion of the upper body, wherein the hinge is located at one lateral end portion of the upper end portion of the lower body; and

a photographing apparatus coupled to a lateral side of the hinge and having manual and automatic zoom focusing capabilities, the photographing apparatus comprising:

a controlling unit;

an image sensor for automatic zoom focusing, the image sensor detecting a subject and measuring a distance between the subject and the photographic apparatus;

a lens positionable relative to the image sensor; and

a positioning mechanism providing optical zooming, the positioning mechanism operated by the controlling unit when the controlling unit receives a signal for the optical zooming,

wherein the signal is generated by the image sensor or in response to user manipulation of the at least one terminal manipulation device.

51. (New) A folding-type mobile communication terminal comprising:

an upper body comprising a display;

a lower body rotatably coupled to the upper body;

a hinge configured to connect the lower body with the upper body at an upper end portion of the lower body and a lower end portion of the upper body, wherein the hinge is located at one lateral end portion of the upper end portion of the lower body; and

a photographing apparatus coupled to a lateral side of the hinge, the photographing apparatus comprising:

an image sensor for automatic zoom focusing, the image sensor detecting a subject and measuring a distance between the subject and the photographing apparatus;

a controlling unit comparing the distance measured by the image sensor with a preset optimum distance and automatically performing optimal zooming according to a comparison result;

a lens positionable relative to the image sensor; and

a positioning mechanism providing optical zooming, the positioning mechanism operated by the controlling unit.